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# RELIABILITY PREDICTION

**Model : PSP-1000** Data:2003-03-03

| Style | Part Type | Q'ty | $\lambda_g$ | $\pi_Q$ | $\lambda_{eg}$ | % |
|---|---|---|---|---|---|---|
| 9.1 | Resistor-Film, Insulated (RL) | 182 | 0.003700 | 10 | 6.734000 | 40.179 |
| 9.1 | Resistor-Film, Variable (RVC) | 4 | 0.040000 | 10 | 1.600000 | 9.547 |
| 9.1 | Resistor-Thermistor (RTH) | 2 | 0.001400 | 10 | 0.028000 | 0.167 |
| 10.1 | Capacitor-Metal, Plastic (CH) | 58 | 0.000510 | 10 | 0.295800 | 1.765 |
| 10.1 | Capacitor-Ceramic(Gen.) (CK) | 20 | 0.001700 | 10 | 0.340000 | 2.029 |
| 10.1 | Capacitor-Aluminum Dry (CE) | 52 | 0.001300 | 10 | 0.676000 | 4.033 |
| 6.1 | Diode-Gen. Purpose Analog | 4 | 0.003600 | 8 | 0.115200 | 0.687 |
| 6.1 | Diode-Switching | 40 | 0.000940 | 8 | 0.300800 | 1.795 |
| 6.1 | Diode-Fast Recovery Power Rectifier | 4 | 0.023000 | 8 | 0.736000 | 4.391 |
| 6.1 | Diode-Power Rectifier / Schottky Power | 24 | 0.002800 | 8 | 0.537600 | 3.208 |
| 6.1 | Diode-Voltage Ref/Reg. (Avalanche & Zener) | 18 | 0.003300 | 8 | 0.475200 | 2.835 |
| 6.1 | Diode-Transient Suppressor/Varistor | 2 | 0.002900 | 8 | 0.046400 | 0.277 |
| 6.10 | Diode-Thyristor/SCR | 2 | 0.002500 | 8 | 0.040000 | 0.239 |
| 6.3 | Transistor-NPN/PNP | 18 | 0.000150 | 8 | 0.021600 | 0.129 |
| 6.4 | Transistor-MOSFET | 8 | 0.014000 | 8 | 0.896000 | 5.346 |
| 6.11 | OPTO-isolator | 6 | 0.027000 | 8 | 1.296000 | 7.733 |
| 5.1 | Linear Microcircuits | 12 | 0.009500 | 10 | 1.140000 | 6.802 |
| 11.1 | Transformer Switching | 2 | 0.000610 | 3 | 0.003660 | 0.022 |
| 11.2 | Coil Fixed inductor or choke | 10 | 0.000032 | 3 | 0.000960 | 0.006 |
| 13.1 | Relay-General Purpose | 2 | 0.049000 | 2.9 | 0.284200 | 1.696 |
| 15.1 | Connector- Rectangular | 10 | 0.050000 | 2 | 1.000000 | 5.967 |
| 17.1 | Single Connections-Reflow solder | 1216 | 0.000069 | 1 | 0.083904 | 0.501 |
| 17.1 | Fuses Clip-Clip Termination | 4 | 0.000120 | 1 | 0.000480 | 0.003 |
| 22.1 | Fuses | 2 | 0.010000 | 1 | 0.020000 | 0.119 |
| 16.1 | Plated Through Hole Circuit Boards | 2 | 0.022000 | 2 | 0.088000 | 0.525 |
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| **Total Failure rate:** | | | | | 16.759804 | 100% |

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**

**MTBF:** 59666.57 **hrs**

- **Env.: GB**
- **Exclude: FAN**

Approved by: 92.3.3 王毓賓 . Compiled by: 研發部 92.3.3 許淑惠 .

A40-F009 89.01.03